

# Technical Advisory Committee Meeting No. 1

February 28, 2007

Marana Municipal Complex  
Administration Building  
2<sup>nd</sup> Floor Conference Center  
11555 W. Civic Center Drive

Interstate 10  
Pinal Regional Transportation Profile





## Agenda

1. Welcome, Opening Remarks, and Introductions
2. Committee Role and Responsibility
3. Work Plan, Schedule, and Public Involvement Plan
4. Prospective New Corridors Round Table
5. TAC Comments
6. Adjournment



## TAC Role and Responsibility

- Attend TAC meetings (every other month)
- Report progress to management and elected officials
- Review and provide timely comments on project documents
- Assist in issue identification and resolution
- Assist in establishing jurisdictional work groups
- Be an active participant in the study





## Interstate 10 Pinal Regional Transportation Profile



# Kimley-Horn Team

### **Kimley-Horn and Associates**

- Project management and agency coordination
- Public involvement
- Existing and future conditions
- New corridor needs and feasibility
- Needs and deficiencies
- Project development, assessment, and priorities
- Documentation

### **Lima & Associates**

Travel demand modeling for 2015, 2030  
and "beyond 2030"

### **Cambridge Systematics**

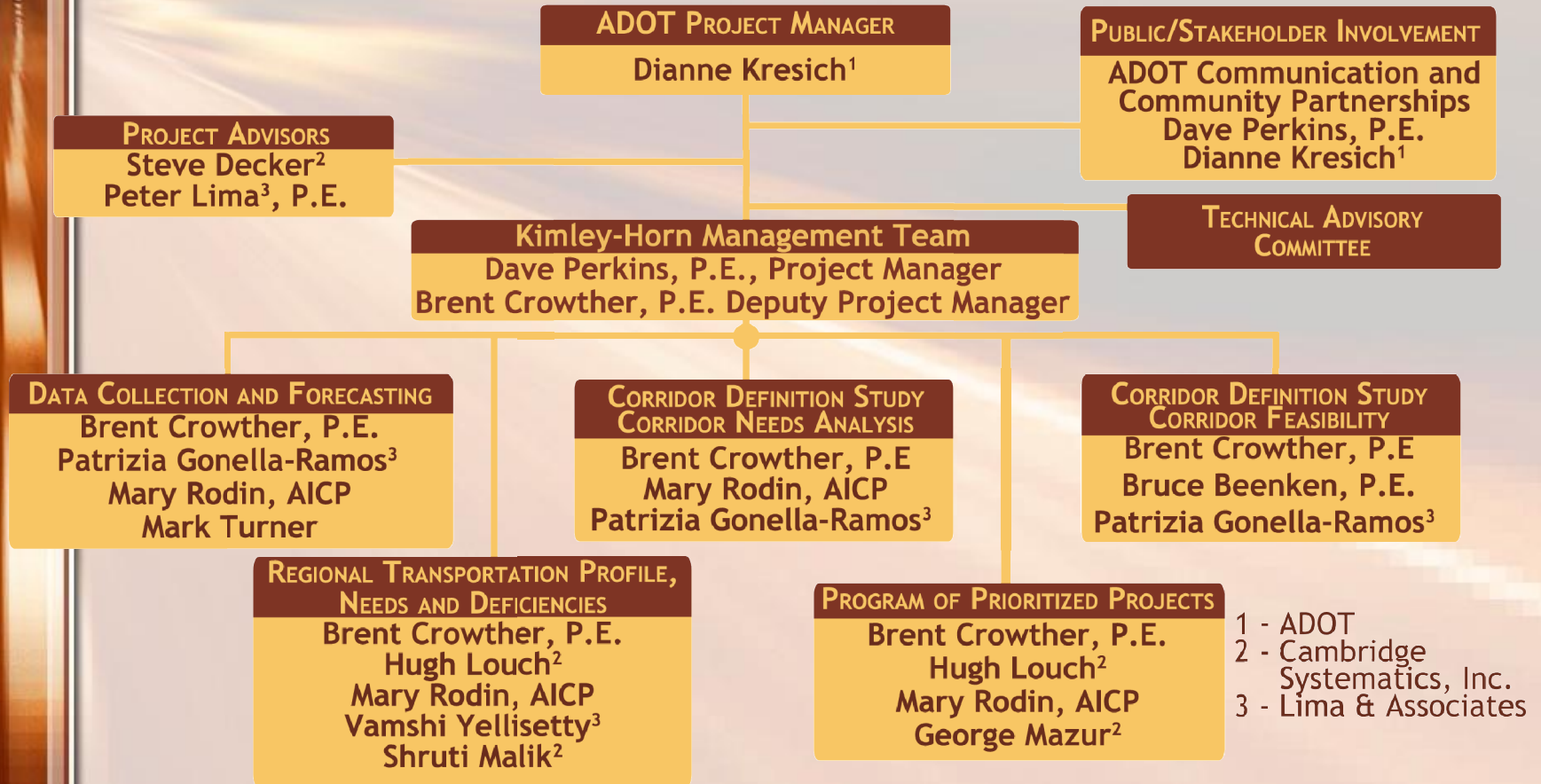
HERS-ST 4.1

**Gordley Design Group (ADOT  
Communication and Community  
Partnerships Consortium)**





# Interstate 10 Pinal Regional Transportation Profile



- 1 - ADOT
- 2 - Cambridge Systematics, Inc.
- 3 - Lima & Associates





# Study Processes

## Two ADOT study processes in one study

- § Corridor Definition Study
- § Regional Transportation Profile Study

## Why two processes?

- § Anticipated regional growth
- § Transportation system capacity
- § Agency and stakeholder expectations
- § ADOT commitment





# Study Process Descriptions

## Regional Transportation Profile Requirements

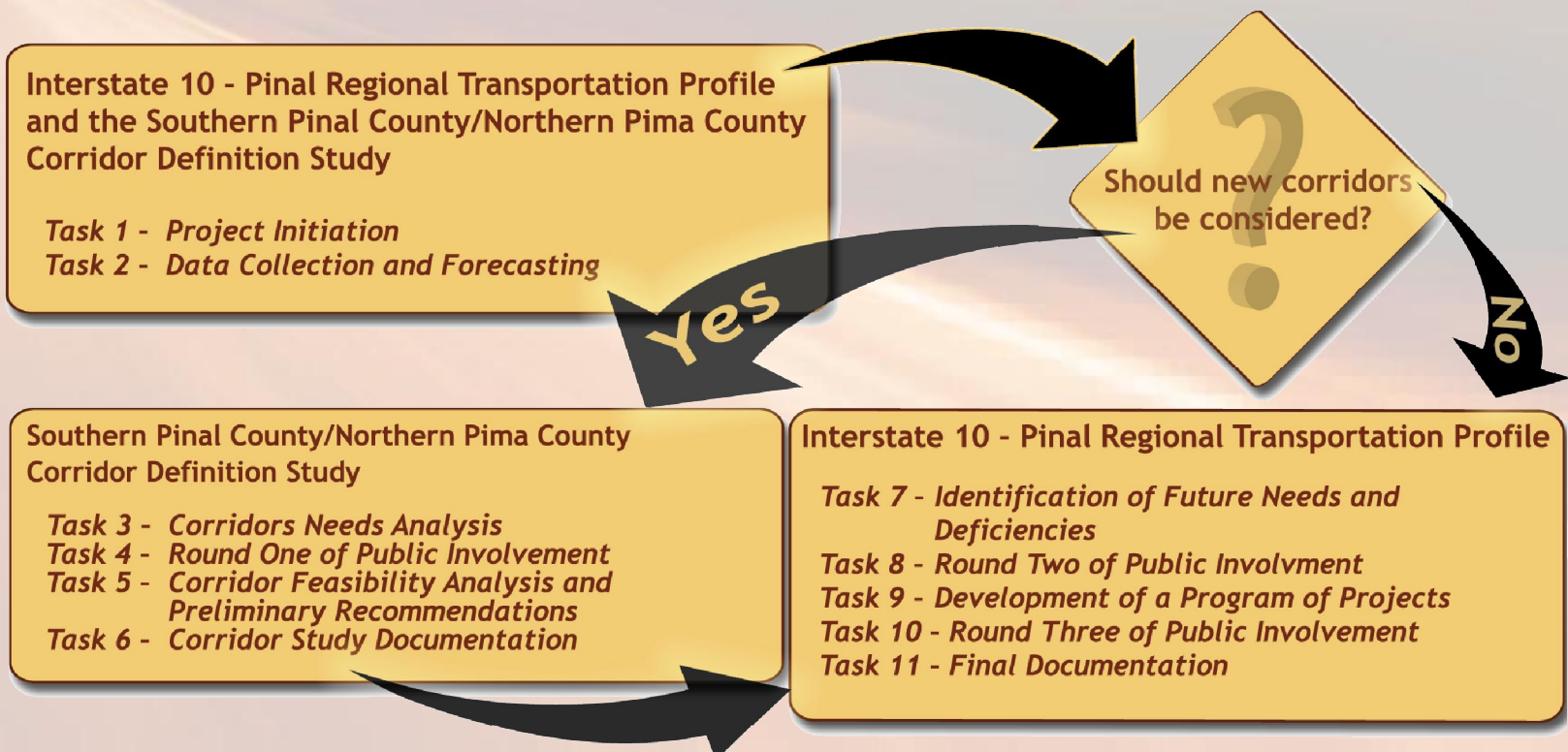
- § Consistent procedural guidelines
- § Consistent data bases
- § Consistent analysis techniques
- § ADOT District support for recommendations

## Corridor Definition Requirements

- § Potential new corridors
- § 'Beyond 2030' scenario modeling
- § New corridor needs assessment
- § New corridor feasibility assessment
- § Agency and stakeholder support for new corridors



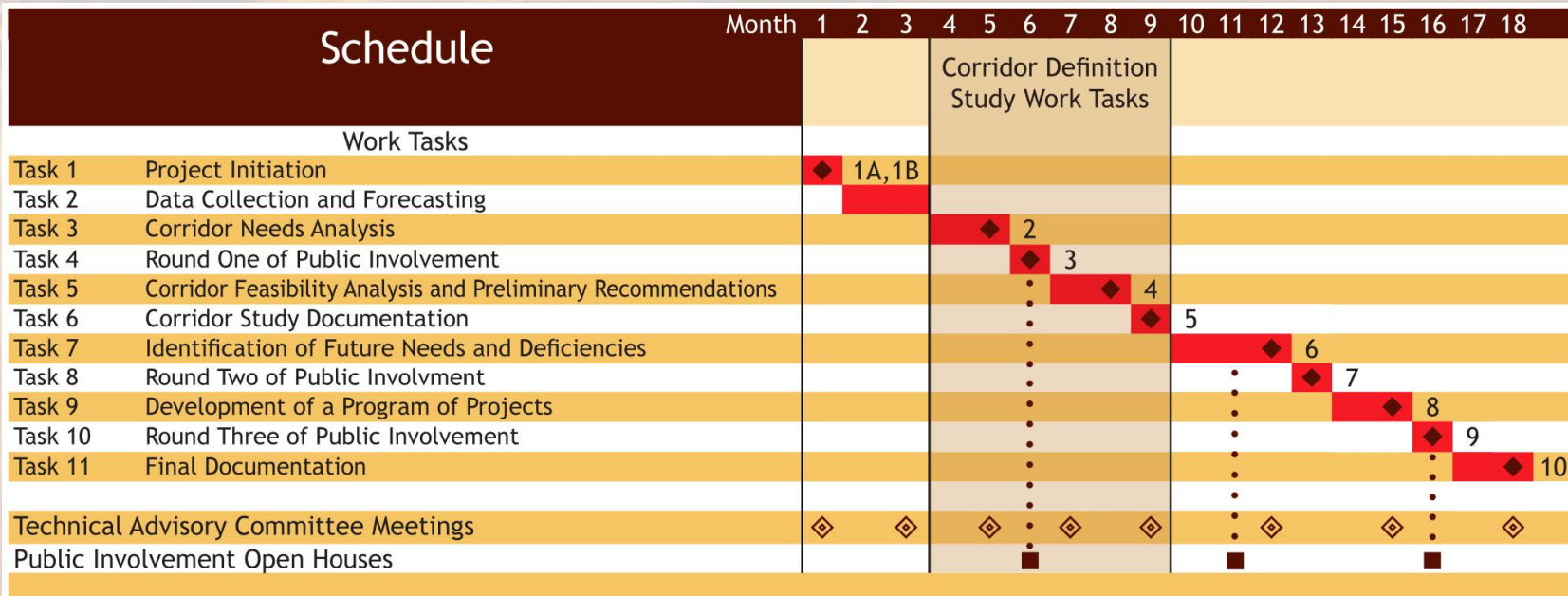
# Integrating the Study Processes







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## ◆ Distribution of Task Document

As stated in Task Assignment TPD 05-07, if Corridor Definition Tasks are conducted beyond the point of Needs Analysis (Task 3), the project will be completed in 18 months. If need is not established for new corridors, the project will be completed in 12 months.



- 1 Work Plan and Public Involvement Plan
- 1B Public Involvement Plan
- 2 Working Paper No. 1 - Existing and Future Conditions/Corridor Needs Analysis
- 3 Public Involvement Summary Report No. 1
- 4 Working Paper No. 2 - Feasibility Analysis and Preliminary Recommendations
- 5 Draft Corridor Definition Study Final Report
- 6 Working Paper No. 3 - Deficiencies in the Study Area
- 7 Public Involvement Summary Report No. 2
- 8 Working Paper No. 3 - Program of Projects
- 9 Public Involvement Summary Report No. 3
- 10 Draft Final Report, Final Reports, and Executive Summary



# Corridor Definition Study Elements

- § New corridor identification process
- § Travel demand modeling
- § New corridor needs assessment
- § New corridor feasibility assessment



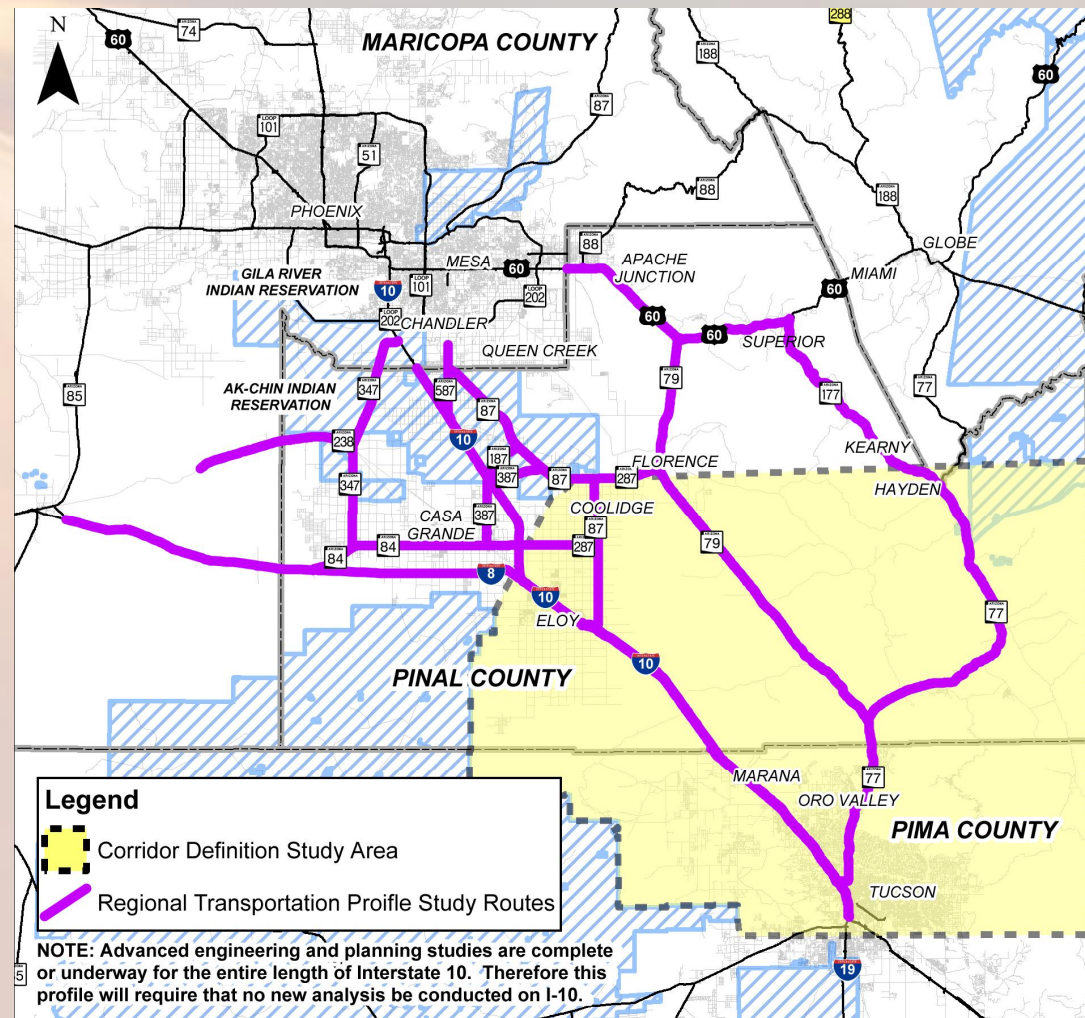
## Potential New Corridors

- § Prospective new corridors must be identified before assessing need for new corridor
- § Proposed criteria for potential new corridors
  - § Supplement to/integrated with local and regional transportation plans
  - § Serve a state or regional function (now or in the future)
  - § Reflect agency transportation planning visions
  - § Allow for future corridor development
- § Process must be systematic, technically sound, and understandable





# Corridor Definition Study Area





# Travel Demand Modeling

- § Pinal County model is proposed as the principal tool for Corridor Definition and RTP
- § Modeling includes:
  - § Socioeconomic database development for 'beyond 2030', 2030, and 2015
  - § Network development
  - § New corridors needs assessment
  - § New corridors feasibility assessment



# Socioeconomic Database Development

- § Define area of influence
- § Coordinate Socioeconomic Projections: Pinal County, CAAG, PAG, local jurisdictions
- § Define 'beyond 2030', 2030, and 2015 projections
  - § Draft projections
  - § Review of projections by stakeholders
  - § Buy-off of final projections





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and Associates, Inc.

## 2025 Pinal SATS Network LOS





# New Corridor Needs Assessment

## § Needs Criteria

- § Attracts trips, principally regional in nature
- § Diverts traffic from congested routes
- § Serves a state or regional function (now or in the future)
- § Serves commercial trade

## § Approach

- § Forecast 'beyond 2030' traffic volumes for the 2030 base network and 3 new corridor scenarios
- § Estimate performance factors for 'beyond 2030' with and without new corridors
- § Conduct levels of service analysis on the entire system
- § Review travel demand across screenlines
- § Identify travel demand deficiencies in the area of influence
- § Document results of needs assessment



# New Corridor Feasibility Assessment

- § Engineering and constructibility factors
- § Environmental factors
- § Compatibility with regional and local development plans/patterns





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## Pinal Regional Transportation Profile



# Regional Transportation Profile

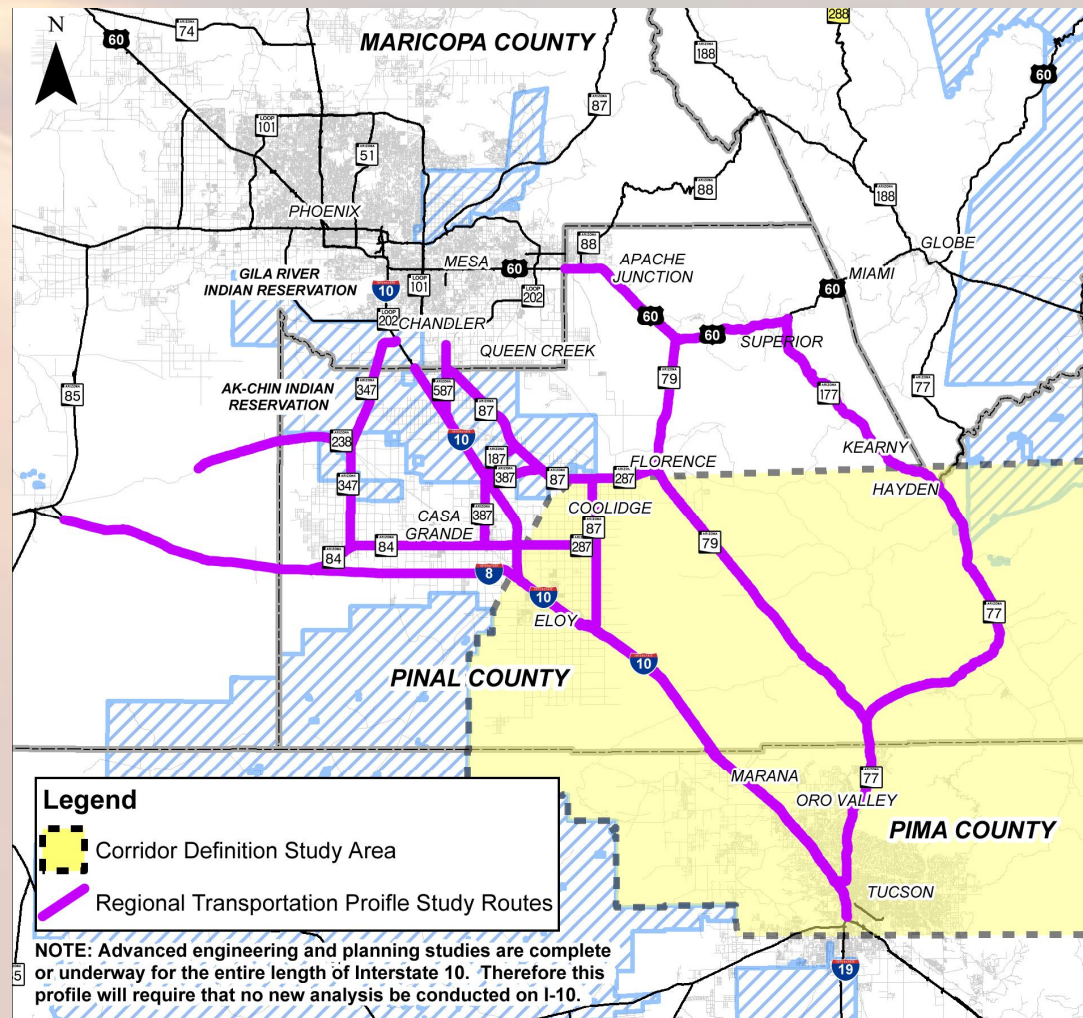
- § Will provide input to the next update of the State Transportation Plan
- § Consistency among RTPs achieved through RTP Guidelines
- § RTP will document 2015 and 2030 needs, deficiencies, and projects on State highway system





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## State Highways in the RTP Study Area





## Considerations for the RTP

- § Consistent procedural guidelines
- § Consistent data bases
  - § Audited HPMS Data Set: review ADOT 5-year construction plan, video log
  - § Updated HPMS segments
  - § Updated AADT
  - § District review and input
- § Consistent analysis techniques





## Considerations for the RTP

- § Identify future needs and deficiencies
  - § Integrate corridor definition studies
  - § Other I-10 projects and studies ("fixed" investments)
  - § HERS-ST analysis



## Considerations for the RTP

- § Needs, deficiencies, and projects identified must be reviewed and supplemented
  - § ADOT Districts
  - § COGs and MPOs
  - § Counties and local jurisdictions
  - § Tribes, stakeholders, public
  - § Other available information and databases



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## Public Involvement Plan

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ADOT Communication and Community  
Partnerships Consortium







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# New Corridors Round Table

- § Criteria for potential new corridors
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  - § Allow for future corridor development





# New Corridors Round Table

## § New Corridor Resources

- § ADOT Pinal County Corridors Definition Study
- § ADOT I-10 Design Concept Study, I-8 to Tangerine
- § Pinal County Regionally Significant Routes and Access Management Study
- § PAG Loop Study
- § State Transportation Board By-Pass
- § MAG Hidden Valley Transportation Framework Study



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## TAC Comments

